

LISTER-PETTER

EXECUTIVE ORDER U-R-023-0010 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)			
2002	2L5XL1.86FTC	1.9	Diesel	5000			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
[Direct Diesel Injection, T	urbocharger	Pump, Compressor, Generator Set				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		НС	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 <u><</u> KW <37	Tier 1	STD	N/A	N/A	9.5	5.5_	0.80	N/A	N/A	N/A
		CERT			8.1	2.8	0.66			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this ______ day of February 2002.

Allen Loons, Chief

New Vehicle/Engine Programs Branch.

Engine Model Summary Form

Attachment

Lister-Petter Manufacturer:

Nonroad Cl Engine category:

EPAEngine Family: 2L5XL1.86FTC

Mfr Family Name: LPWT4

New Submission Process Code:

9.Emission Contr Device Per SAE J18		の元に	畫	ŧ	EN	EM	\$	吉	
8.Fuel Rate: (lbs/hr)@peak torque		N/A							
7,Fuel Rate: mm/stroke@peak torque		N/A							
6.Torque @ RPM (SEA Gross)		N/A	N/A	A/A	N/A	N/A	A/N	A/A	N/A
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)		14.0	14.0	14.0	14.0	14.0	11.1	11.1	11.1
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)		35	35	35	35	35	34	34	34
3.BHP@RPM (SAE Gross)		35.1 @ 1800	35.1 @ 1800	35.1 @ 1800	35.1 @ 1800	35.1 @ 1800	28.3 @ 1500	28.3 @ 1500	28.3 @ 1500
2.Engine Model		308	358	374	379	380	307	357	381
1.Engine Code	50 State Code	1 PWT4	PWT4	DNAF	1 PWT4	I PWT4	1 PWT4	PWT4	LPWT4

45 X-NR3-02-02